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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/529,168	03/24/2005	Sylvie Fradette	531-017.008	2580		
4955 7590 99/03/2008 WARE FRESSOLA VAN DER SLUYS & ADOLPHSON, LLP BRADFORD GREEN, BUILDING 5			EXAM	EXAMINER		
			FIORITO, JAMES			
755 MAIN ST MONROE, CT	REET, P O BOX 224 r 06468	ART UNIT	PAPER NUMBER			
mormor, c.	. 00100	7130	1793			
			MAIL DATE	DELIVERY MODE		
			09/03/2008	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	Applicant(s)		
10/529,168	FRADETTE ET AL.			
Examiner	Art Unit			
JAMES A. FIORITO	1793			

Onice Action Gammary	Examiner	Art Unit					
	JAMES A. FIORITO	1793					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.15 and 55 K (6) MONTHS from the maining date of the communication. - Failure to reply within the set or extended prior for reply will by statute. Any reply received by the Office later than three months after the mailing aemed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. iely filed the mailing date of this c (35 U.S.C. § 133).	•				
Status							
1) Responsive to communication(s) filed on 6/16/	08.						
2a) This action is FINAL. 2b) ☑ This	action is non-final.						
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
· _							
4) Claim(s) 1-22 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed.							
6) Claim(s) 1-22 is/are rejected.							
7) Claim(s) is/are rejected.							
8) Claim(s) are subject to restriction and/or	alaction requirement						
o) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the i	Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT	TO-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
1.☐ Certified copies of the priority documents	s have been received						
Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No.							
Copies of the certified copies of the prior			Stane				
application from the International Bureau	•	a in this reational	Otage				
* See the attached detailed Office action for a list		d					
See the diddrest detailed Office detail for a list	or the certained copies not receive	u.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P						
Information Disclosure Statement(s) (FTO/SE/DE) Paper No(s)/Mail Date	6) Other:	atom Application					

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

Application/Control Number: 10/529,168

Art Unit: 1793

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Viteri US 6170264 in view of Lalande WO 02/083591.

Viteri teaches a low to no pollution generating hydrocarbon combustion based power generation systems, including fossil fuel burning power plants that utilize gas and/or steam turbines (Column 1). Viteri uses terrestrial formations such as underground geological formations and oceans to sequester carbon dioxide (Column 1).

Viteri does not expressly state the steps of biologically transforming the carbon dioxide into carbonated species.

Lalande teaches a process of reducing the accumulation of greenhouse gases (Page 1 Lines 15-20) using carbonic anhydrase to convert carbon dioxide produced by the burning of fossil fuels into hydrogen and bicarbonate ions (Page 8). The ions are mixed with calcium chloride or sea salts and the pH is adjusted to cause carbonates to precipitate (Page 8). The precipitate is used as clinker in a cement making process (Abstract).

At the time of invention it would have been obvious to perform the process of Viteri to include the steps of biologically transforming carbon dioxide into carbonated species in view of the teaching of Lalande. The suggestion or motivation would have been to transform harmful Art Unit: 1793

greenhouse gas into a carbonated metal harmless to the environment and useful in cement

making processes (Page 8).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to JAMES A. FIORITO whose telephone number is (571)272-7426.

The examiner can normally be reached on 9am - 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stanley Silverman can be reached on (571) 272-1358. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/James A Fiorito/ Examiner, Art Unit 1793 /Wayne Langel/ Primary Examiner, Art Unit 1793